| Index of Claims      |          |                     |              |          |          |             |          |          |           |               | 1        | Application/Control No. |          |          |              |           |        |           |           |              | Applicant(s)/Patent under |           |    |          |           |          |              |            |   |          |                |           |             |          |            |          |            |           |     |  |
|----------------------|----------|---------------------|--------------|----------|----------|-------------|----------|----------|-----------|---------------|----------|-------------------------|----------|----------|--------------|-----------|--------|-----------|-----------|--------------|---------------------------|-----------|----|----------|-----------|----------|--------------|------------|---|----------|----------------|-----------|-------------|----------|------------|----------|------------|-----------|-----|--|
|                      |          |                     |              |          |          |             |          |          |           |               |          |                         |          |          |              |           |        | 1         | 11        | 0/7          | 16                        | 5,24      | 15 |          |           |          |              |            |   |          | i              |           |             |          |            |          |            |           |     |  |
|                      |          |                     |              |          |          | Ш           |          |          |           | Ш             |          |                         |          |          |              |           |        | ı         |           |              |                           | 101       |    |          |           | _        | _            |            |   |          | H <sub>A</sub> |           | Un<br>Un    | A,<br>it | IMU        | AK       | <u>.O</u>  | 10        |     |  |
|                      | 11000    | U UU                | ll UU        | Ш        | ШШ       | UUL         | I UIL    | III III  |           | Ш             | Ш        |                         |          |          |              |           |        | 1         | A         | da           | ~                         | C.        | ۵, |          | _         |          |              |            |   |          | ١.             |           |             |          |            |          |            | l         |     |  |
|                      |          | _                   | _            |          |          |             | _        |          | _         | _             | _        | _                       |          | _        |              | _         | _      |           | ^         | uai          | 11                        | <u>v.</u> | 76 | 3111     | n         |          | _            |            | _ |          | 2              | 87        | 5           |          |            |          |            | L         |     |  |
|                      |          | 1                   | R            | e i      | 200      | ed          | 7        |          |           |               |          | (11)                    | hre      | ug       | h r          | ıuı       | me     | ra        | n         | $\neg$       | 1                         |           | _  | _        |           | _        |              | 7          | ŗ | ٦        |                | -         |             |          |            |          | 7          |           |     |  |
|                      |          | Ľ                   | Ľ            |          |          |             | 1        |          |           |               |          | _                       | _        | Car      | 108          | lle       | d      |           | •,        |              |                           | М         | R  | or       | 1-€       | ile      | cted         | 8          | 1 | A        |                | F         | þ           | 986      | 2          |          |            |           |     |  |
|                      |          | 23                  | A            | llo      | NA.      | eď          | 1        |          | 1         | *             |          |                         | ß        | les      | eri.         | 46        | ~      |           |           | 7            | -                         | 0         | ١. |          | _^_       |          |              | 7          | t |          |                | _         |             |          |            | _        | 1          |           | •   |  |
|                      |          | L                   | _            |          |          |             |          |          | l         | Ц             |          |                         |          |          |              |           | u      | _         | _         | ╝            | Į                         |           | 11 | 100      | ne        | 3 FG     | ence         |            |   | 이        |                | O         | bje         | CE       | 3 <b>d</b> |          |            |           |     |  |
| Ct                   | aim      |                     | _            |          | _        | Dai         | le       |          | _         |               | ٦        | ſ                       | _        | lair     | n            | _         | _      |           | _         | _            | ate                       |           |    | _        |           | 7        |              |            | _ |          |                |           |             |          | _          | _        | _          |           |     |  |
| _                    | aí       | 5                   | 92           |          |          | Γ           | Γ        | T        | T         | T             | ٦        | Ì                       |          | Т        | _            | ┪         | Γ      | Т         | T         | Ť            | T T                       | 1         | 7  |          | Г         | ┨        | +            | Claim      | + | 7        | 7              | 7         |             | ate      | 9          | т        | т-         | т-        | 4   |  |
| Final                | Original | 6/8/05              | 788          |          |          |             |          | 1        |           |               | ı        |                         | Final    |          | Original     |           |        | 1         | ı         | 1            | ł                         |           | J  |          | 1         | ı        | Figs         | Original   | 1 | -        | 1              | -         |             |          |            |          | İ          |           | ·   |  |
|                      |          |                     |              |          | L        | L           |          |          |           |               |          | ı                       | •        | ŀ        | ŏ            |           |        | 1         | 1         | 1            | 1                         | 1         |    |          |           |          | "            | Į          | 1 |          | -              | ł         |             |          |            | ı        |            |           | 1   |  |
| -                    | 3        | 1                   | 1            | 4        |          |             | L        | Ŧ        | 4         | 丁             | 7        | 1                       | _        |          | <u> 1</u>    |           |        | 1         | 1         | 1            | 士                         | 士         | 1  |          |           | 1        |              | 101        | + | +        | +              | ┥         | ┪           | $\dashv$ | -          |          | ├          | ╀╴        | -   |  |
|                      | 3        | 1                   | रा           |          |          | -           | t        | 十        | $\dagger$ | +             | ┪        | ŀ                       |          |          | 3            | ·         | ┝      | ╁         | +         | ╬            | +                         | 4         | 4  | 4        |           | -        |              | 102        |   | Ţ        | 7              | 7         | $\exists$   |          |            |          |            | I         | 1   |  |
| $\vdash$             | 4        |                     | 7            | $\Box$   |          |             | Γ        | Ţ        | 7         | #             | 7        | Į                       | _        | 5        | 4            | _         |        | İ         | #         | 士            | 士                         | 士         | 1  |          |           |          |              | 103        |   | +        | +              | +         | ┥           | 4        | _          | $\vdash$ | <b> </b> - | +         | 4   |  |
|                      | 6        | ┧                   | <del>]</del> | ┥        | _        | -           | $\vdash$ | ╀        | +         | ╬             | $\dashv$ | H                       | _        |          | 5            |           | L      | H         | +         | -            | 4                         | 4         | 7  | 4        | $\Box$    |          |              | 105        | T | #        | #              | #         |             | コ        |            |          |            | Ė         | 1   |  |
|                      | 7        | $\rightrightarrows$ | $\sqsupset$  | コ        |          |             |          | 上        | #         | 土             | 1        | E                       |          | 5        | 7            |           |        | $\vdash$  | $\dagger$ | 士            | +                         | ╁         | +  | +        | -         |          | $\vdash$     | 106<br>107 | ╀ | +        | +              | +         | +           | 4        | _          |          | F          | F         | -   |  |
| $\vdash\vdash\vdash$ | 8        | $\dashv$            | +            | 4        | 4        | Ч           | -        | +        | +         | +             | -        | L                       |          | 5        |              |           |        | L         | F         | Ţ            | T                         | 7         | 1  | コ        |           |          |              | 108        | İ | $\pm$    | 士              | 士         | 士           | 1        | $\exists$  |          | $\vdash$   | $\vdash$  | 1   |  |
|                      | 10       | 1                   | 士            |          |          |             |          | 上        | $\pm$     | 士             | 1        | ŀ                       | _        | 6        |              | ┪         | _      | +         | ╁         | ╁            | ┿                         | ╁         | +  | +        | $\dashv$  |          | ⊬            | 109<br>110 | ╀ | +        | +              | Ţ         | 4           | 4        | $\Box$     |          |            |           | ] . |  |
| $\vdash$             | 11 12    | +                   | +            | 4        | 4        |             |          | F        | Ţ         | Ŧ             | 7        | F                       |          | 6        |              | コ         | _      |           | I         | I            | T                         | 士         | 士  | 1        |           |          |              | 111        | t | +        | +              | ╅         | +           | +        | ┪          | -        | _          | ┝         | 1   |  |
|                      | 13       | $\pm$               | +            | 1        | 7        | $\dashv$    | -        | +        | $\dagger$ | +             | ┨        | H                       | _        | 6        |              | ┥         | _      | ┝         | ╀         | ╀            | ╀                         | +         | +  | +        | $\dashv$  |          |              | 112        | F | Ŧ        | Ŧ              | Ţ         | 1           | 7        | コ          |          |            |           | 1   |  |
|                      | 14<br>15 | 7                   | 7            | 7        | $\Box$   | $\sqsupset$ | _        | E        | ļ         | 工             | 1        |                         |          | 6        | 4            | コ         | _      |           | L         | t            | 土                         | $\pm$     | †  | +        | ┪         |          | <del> </del> | 114        | ┝ | +        | ╁              | ╁         | +           | +        | ┥          | $\dashv$ | -          | H         |     |  |
| $\vdash$             | 16       | ╁                   | ╅            | +        | $\dashv$ | ┥           | _        | -        | ╀         | ╬             | ┨        | -                       |          | 6        |              | 4         |        | ┡         | L         | L            | F                         | Ŧ         | Ŧ  | Ŧ        | $\exists$ |          |              | 115        |   | Ţ        | 工              | #         | 1           | #        | コ          | コ        |            |           | 1   |  |
|                      | 17       | 1                   | #            | #        | コ        | $\exists$   |          | 匚        | L         | 上             | 1        | E                       | _        | 6        | 7            | 1         |        |           | L         | $\perp$      | +                         | +         | ╁  | ╬        | $\dashv$  |          | ┝            | 116        | ├ | ╀        | ╀              | ╀         | ╀           | +        | 4          | -        | -          | Н         |     |  |
| $\vdash$             | 18       | +                   | +            | +        | $\dashv$ | $\dashv$    | _        | ⊢        | ╀         | ╀             | -        | F                       |          | 68       |              | 4         |        |           | L         | F            | L                         | T         | Ţ  | 1        | $\exists$ |          |              | 118        |   |          | İ              | 上         | 土           | 土        | 士          | 士        |            |           |     |  |
|                      | 20       | 1                   | 土            | 1        | コ        | 士           |          |          | t         | 上             | 1        |                         |          | 7(       |              | 1         | ٦      | -         | ┝         | ╁            | ╁                         | ╀         | +  | +        | $\dashv$  |          |              | 119<br>120 | _ | ╀        | ╀              | ╀         | +           | +        | +          | 4        | $\dashv$   |           |     |  |
|                      | 21       | ╀                   | ╁            | +        | +        | +           | $\dashv$ |          | L         | -             | 1        | F                       | _        | 71<br>72 | Į.           | Ţ         | $\Box$ |           |           | I            | L                         | Ţ         | ľ  | 1        | ゴ         |          |              | 121        |   | L        | İ              | İ         | 土           | 士        | 1          | 1        | 1          |           |     |  |
|                      | 23       | 土                   | 土            | 土        | 1        | $\exists$   |          |          | H         | †             | 1        | -                       | _        | 73       | +            | +         | ┥      | -         | ┝         | ╁╌           | ┝                         | ╁         | ╀  | +        | 4         |          |              | 122<br>123 |   | L        | $\vdash$       | F         | $\perp$     | Ŧ        | Ţ          | $\Box$   | 4          | $\Box$    |     |  |
|                      | 25       | +                   | +            | 4        | -        | 4           | 4        |          | L         | F             | ]        |                         |          | 74       |              | 1         | $\Box$ |           |           |              |                           | L         | L  | 土        | 1         | l        | _            | 124        | _ | ┢        | ╁              | ╁         | ╁           | ╁        | ╅          | ╅        | $\dashv$   | $\dashv$  |     |  |
|                      | 26       | $\pm$               | $\pm$        | +        | +        | +           | ┪        | Н        | H         | ╁             | l        | $\vdash$                | $\dashv$ | 75<br>76 |              | ╁         | +      | -         |           | H            | H                         | ┝         | L  | $\perp$  | 4         |          |              | 125<br>126 | _ |          |                |           | Ţ           | Ţ        | 1          | 1        | コ          | コ         |     |  |
|                      | 27       | T                   | Ţ            | T        | 7        | 1           | 7        |          |           |               |          |                         |          | _77      | T            | 士         | 1      |           | _         | L            |                           | $\perp$   |    | $\pm$    | 1         | ŀ        |              | 125        | - | ⊢        | ┢              | ⊦         | ╀           | ╀        | ╁          | ╬        | +          | ┥         | •   |  |
|                      | 28<br>29 | +                   | +            | +        | +        | +           | +        | -        | <u> </u>  | -             |          | 1                       | 4        | 78<br>79 |              | Ŧ         | 4      | 4         |           | F            | F                         | Γ         | F  | F        | 7         | ļ        |              | 128        |   |          |                | T         | T           | #        | 丰          | 士        | 士          |           |     |  |
|                      | 30       | L                   | I            | T        | #        | 1           | 1        | コ        |           |               |          | L                       | Ⅎ        | 80       | $\mathbf{L}$ | 士         | 1      | 1         | _         |              |                           | -         | 1  | +        | ┨.        | ╌┠       |              | 129<br>130 | - | $\vdash$ | $\vdash$       | $\vdash$  | ╀           | +        | +          | +        | 4          | $\dashv$  |     |  |
|                      | 31       | ╁                   | +            | +        | +        | +           | 4        |          |           | H             |          | F                       | 4        | 81<br>82 |              | Į         | 7      | 4         |           |              | Ε.                        | E         |    | L        | ]         | į        |              | 131        |   | ÷        |                |           |             | t        | 士          | 士        | 士          | $\exists$ | •   |  |
|                      | 33       | I                   | L            | T        | 1        | 1           | 1        |          | _         |               |          |                         | 7        | 83       |              | $\dagger$ | +      | +         | -         | H            |                           | -         | H  | +        | 1         | ŀ        |              | 132<br>133 | - | _        | $\vdash$       | -         | $\vdash$    | +        | +          | #        | 7          | 7         |     |  |
|                      | 34<br>35 | +                   | +            | +        | +        | +           | +        | $\dashv$ | _         | -             |          | F                       | 7        | 84       |              | F         | Ţ      | 7         |           |              |                           |           |    |          | 1         | t        |              | 134        |   |          |                |           |             | İ        | $\pm$      | 士        | +          | $\exists$ |     |  |
|                      | 36       | <u> </u>            | 上            | t        | $\pm$    | 士           | $\pm$    | 7        | _         | Н             |          |                         |          | 85<br>86 |              | +         | +      | +         | -         | $\dashv$     | _                         | -         |    | $\vdash$ | 1         | 1        |              | 135<br>136 | - | _        | H              | L         | F           | F        | Ŧ          | Ŧ        | T          | 7         |     |  |
|                      | 37<br>38 | +                   | F            | F        | Ŧ        | Ţ           | 7        | 7        | _         |               |          | 匚                       |          | 87       | L            | Į         | #      | 1         |           |              |                           |           | _  |          | 1         | t        |              | 137        | 7 |          | Н              | _         | +           | +        | 十          | 十        | +          | $\dashv$  |     |  |
| 3                    | 39       |                     |              | t        | +        | +           | +        | 十        | ۲         | ${\mathbb H}$ | ĺ        | ┝                       |          | 88<br>89 | +-           | ╁         | +      | +         | -         | -            | -                         | Н         | _  | L        | 1         | F        | $\dashv$     | 138<br>139 | 4 |          |                |           | L           |          | Ţ          | T        | I          |           |     |  |
|                      | 40       | F                   | Г            | F        | F        | L           | 1        | 7        | $\Box$    |               |          |                         |          | 90       |              | L         | #      | #         |           |              |                           |           | _  |          | 1         | t        |              | 140        | + | $\neg$   | $\dashv$       | -         | $\vdash$    | ┢        | +          | ╁        | +          | $\dashv$  |     |  |
|                      | 82       | $\vdash$            | $\vdash$     | ┢        | ╁        | ╁           | +        | ╁        | -         | $\dashv$      |          | ١_                      |          | 91<br>92 | ╀            | $\vdash$  | +      | +         | 4         | [            | 4                         |           | _  | Ľ        | 1         | F        |              | 141        | 1 | $\Box$   | コ              |           |             |          | L          | 1        | T          | ]         |     |  |
| 4                    | 13       |                     |              | L        | L        | Ţ           | 1        | 1        |           | コ             |          |                         | I        | 93       |              |           | 1      | $\pm$     | _         | _            | _                         | +         | ٦  |          | 1         | H        |              | 142<br>143 | + | $\dashv$ | -              | 4         | $\vdash$    | $\vdash$ | -          | +        | +          | $\dashv$  | •   |  |
|                      | 14       | -                   |              | $\vdash$ | $\vdash$ | ╀           | ╀        | +        | 4         | 4             |          |                         |          | 94<br>95 |              | F         | Ŧ      | Ŧ         | 4         | 7            | 7                         | 二         |    |          |           | F        |              | 144        | # |          | コ              |           |             |          |            |          | 1          | J         |     |  |
| 4                    | 6        |                     |              |          |          | L           | 1        | 士        | 1         | 7             | ł        | _                       |          | 95<br>96 | $\vdash$     | +         | +      | +         | +         | $\dashv$     | $\dashv$                  | +         | -  | _        | 1         | H        |              | 145<br>146 | + | 4        | $\dashv$       | 4         | $\Box$      | $\vdash$ |            | F        | F          | 7         |     |  |
|                      | 7        | $\vdash$            |              | F        | F        | F           | F        | Ŧ        | 7         | $\exists$     | -        |                         |          | 97       | 匚            |           | T      | I         | #         | $\downarrow$ | #                         | コ         |    |          |           | L        |              | 147        | t | +        | +              | $\exists$ | $\dashv$    |          |            | +        | +          | 4         |     |  |
|                      | 9        |                     |              | _        | H        | t           | t        | +        | +         | $\dashv$      | ł        |                         |          | 98<br>99 | -            | $\vdash$  | ╀      | +         | +         | +            | 4                         | 4         | 4  | _        |           | F        | $\Box$       | 148        | Ţ | 7        | 7              | コ         | $\sqsupset$ |          | F          | L        | L          | ]         |     |  |
|                      | 0        |                     |              |          | Γ-       | _           | Т        | 7        | ┪         | $\neg$        | t        |                         |          | 00       |              | _         | T      | $\dagger$ | +         | $\dashv$     | +                         | +         | ┪  | -        | l         | $\vdash$ | $\dashv$     | 149<br>150 | + | $\dashv$ | +              | 4         | 4           | _        | <b>!</b>   | -        | ╄-         | Ţ         |     |  |

Application/Control No.